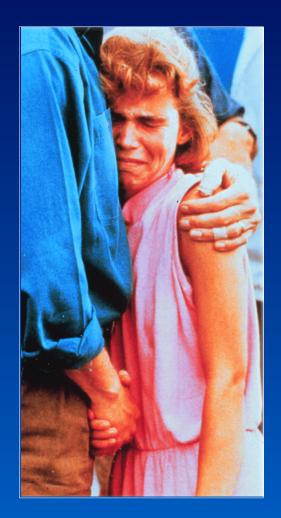


National Weather Service





Flash Floods...
The

Human

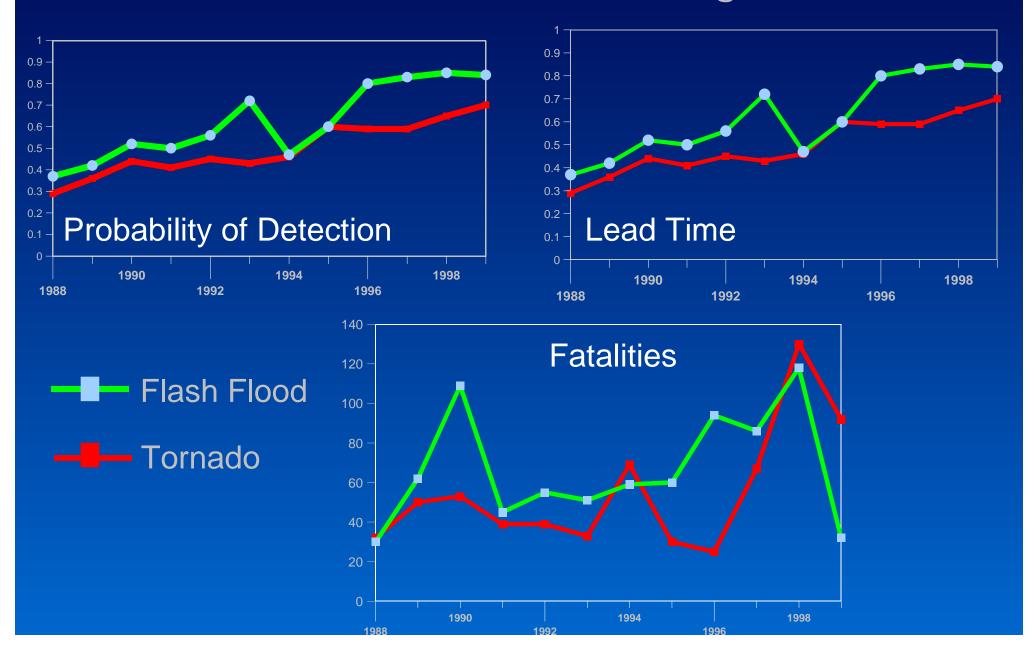
Impact

Don Wernly Flash Flood Conference Atlanta, Georgia May 10, 2000





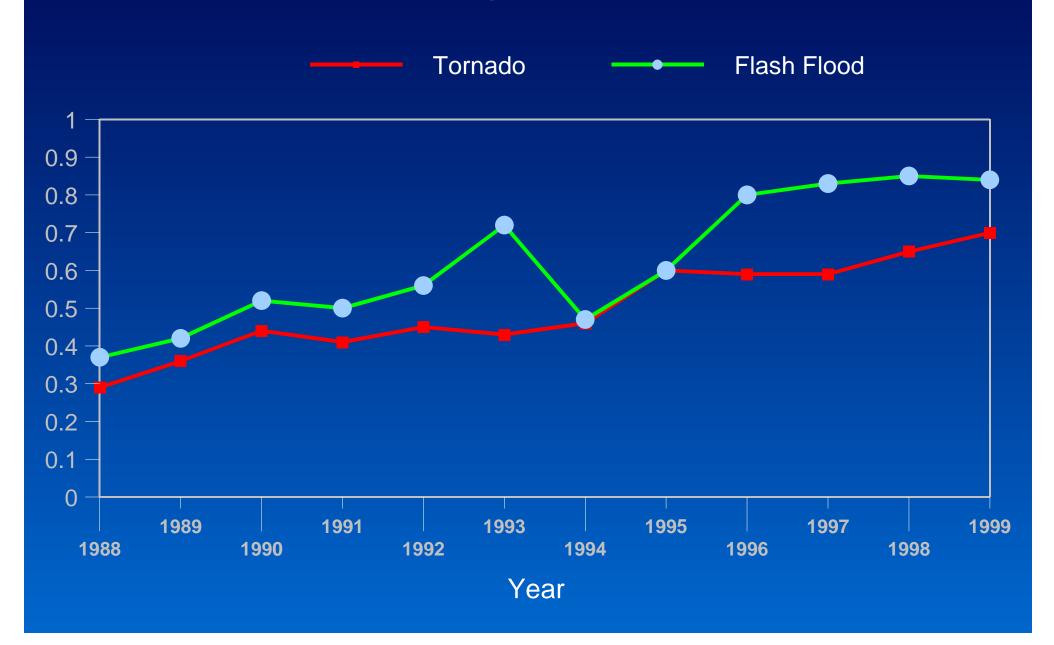
How The NWS Is Doing







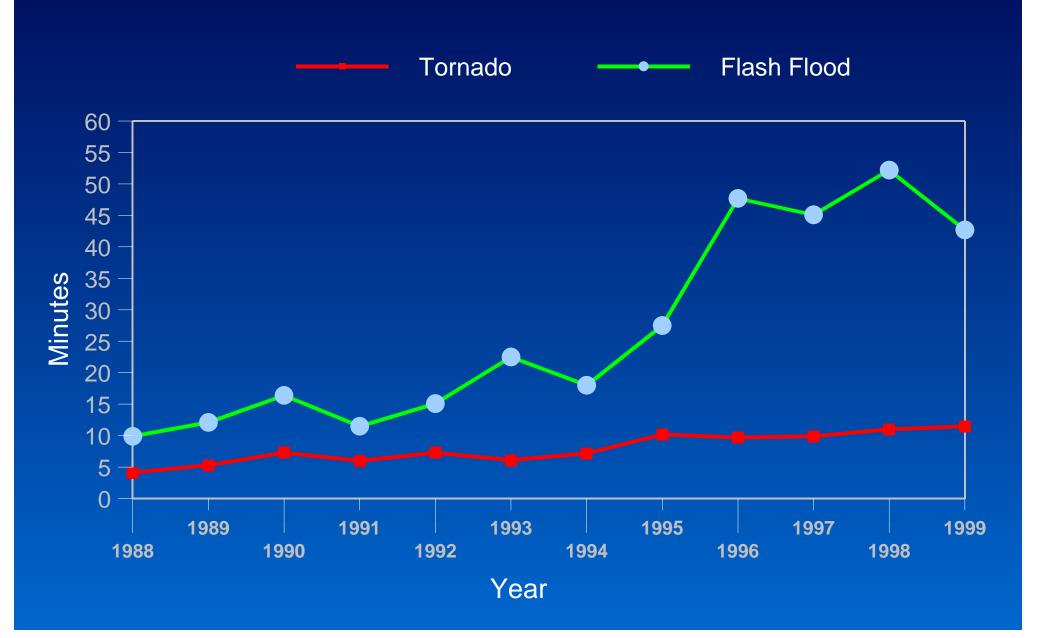
Probability of Detection







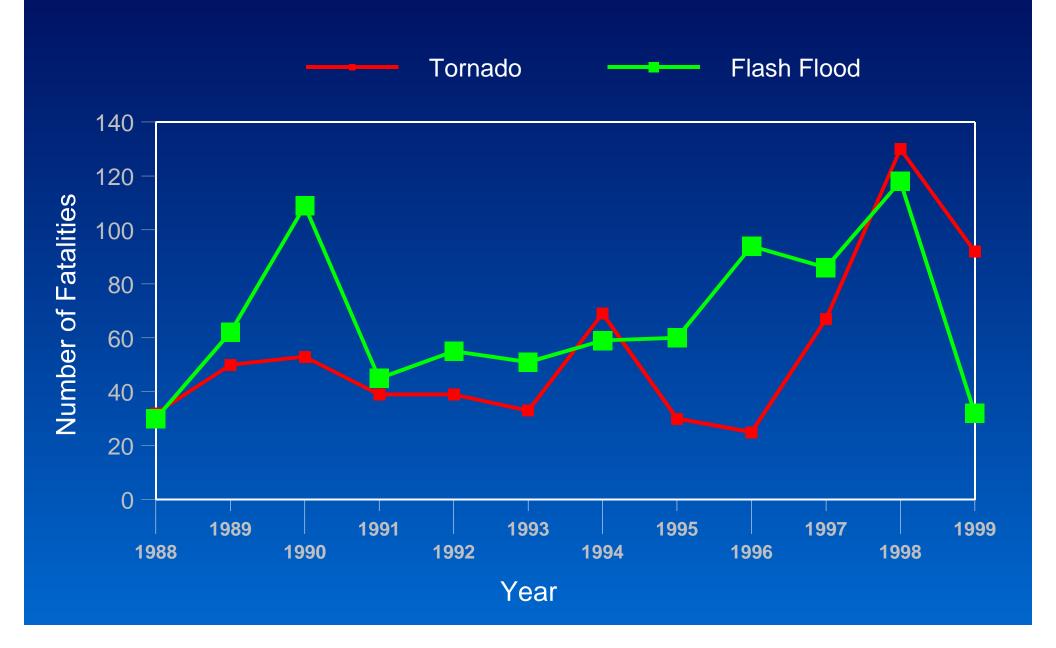
Lead Time







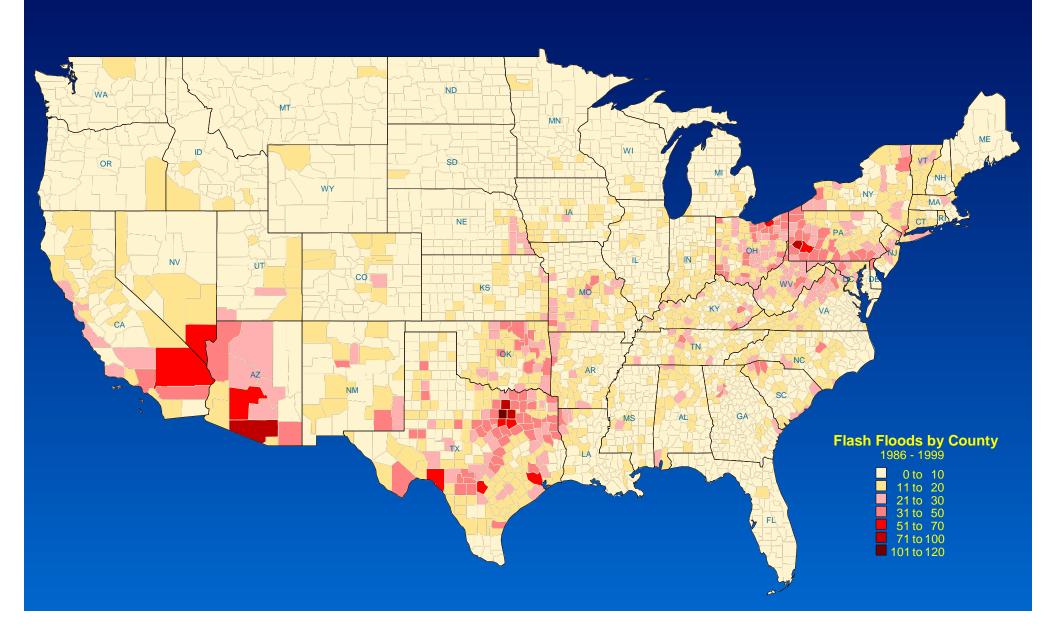
Fatalities







Where They Occur







Who Dies Where?



AP Photo

- <Sex:
 60% Males
 40% Females
- <Age:
 Overall 30-39
 Males 30-39
 Females 20-29
- < Location: 52% Vehicles 27% In Water 8% Homes





Why So Many Deaths?

- Uncertainty over what flash floods are
- Under appreciation of the power





- < Inability to communicate and personalize risk</p>
- < Events last longer leaving more time for inappropriate action</p>



Impact



Beyond the Bodies

Human Suffering





Economic

Environmental





Health

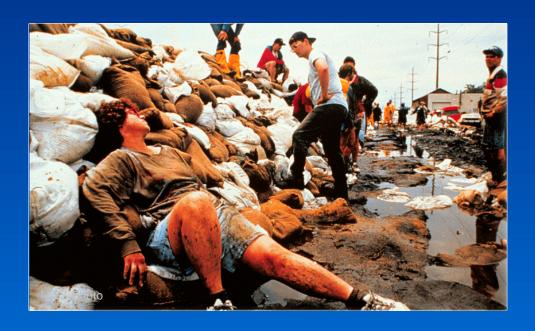


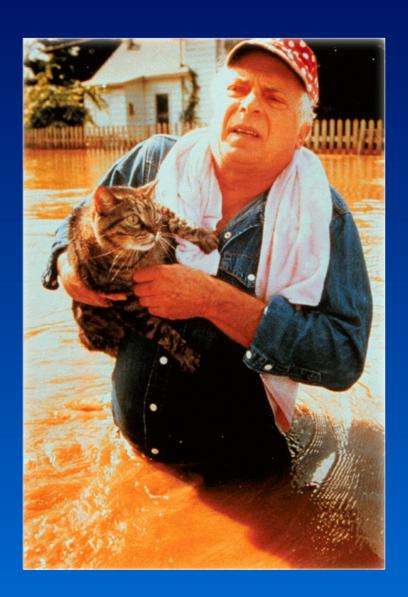
Impact



Beyond the Bodies

- < Human Suffering
 - -Physical
 - -Psychological







Impact



Beyond the Bodies

< Economic

- Lost Businesses/Jobs
- -Health Care Costs

Amoco





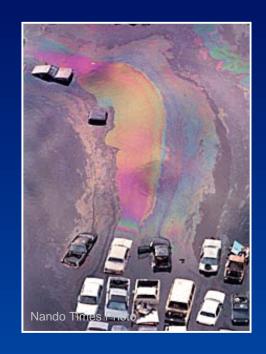
Impact



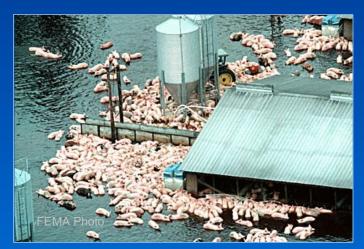
Beyond the Bodies

< Environmental

- Ecosystem Damage
- Pollution-- Impacts on Agriculture and Aquaculture
- Infestations





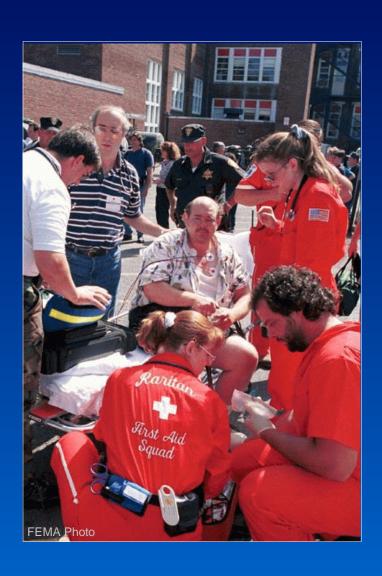




Impact



Beyond the Bodies



< Health

- -Disease
- Injuries
- Chronic MedicalProblems







Where Do We Go From Here?



































Who Dies Where?



